

ABSTRACT OF THE DISCLOSURE

An anomalous shadow detection system capable of obtaining stable detection capacity across all facilities into which the system is introduced, regardless of variations in the conditions 5 of the image obtaining environments of each facility is provided. An image obtaining means obtains an image of a standard-phantom, and an image readout means obtains phantom-image data thereof. Said phantom-image data is input to an evaluative model detecting means which detects evaluative models contained within the image 10 of the standard-phantom. An evaluating means compares the detected evaluative models to a desired detection level. If the detected evaluative models are of a different detection level than the desired detection level, a parameter setting means resets the detection parameter, depending on the result obtained by the 15 evaluating means 32, and the above processing of the phantom-image data is repeated until the detection result and the desired detection level are the same.